

WEST Search History

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DATE: Thursday, September 14, 2006

Hide?	Set Name	Query	Hit Count
		<i>DB=PGPB,USPT,EPAB,JPAB,DWPI; PLUR=YES; OP=OR</i>	
<input type="checkbox"/>	L4	L1 and (Rine or Boyartchuk or Ashby).in.	4
<input type="checkbox"/>	L3	L1 and (afc\$4 or rce\$4)	31
<input type="checkbox"/>	L2	L1 and afc\$4 or rce\$4	1450
<input type="checkbox"/>	L1	(caax\$4 or aax\$4) same (proteas\$4 or proteinas\$4)	100

END OF SEARCH HISTORY

=> d his full

(FILE 'HOME' ENTERED AT 15:15:59 ON 14 SEP 2006)

INDEX 'ADISCTI, ADISINSIGHT, ADISNEWS, AGRICOLA, ANABSTR, ANTE, AQUALINE, AQUASCI, BIOENG, BIOSIS, BIOTECHABS, BIOTECHDS, BIOTECHNO, CABA, CAPLUS, CEABA-VTB, CIN, CONFSCI, CROPB, CROPU, DDFB, DDFU, DGENE, DISSABS, DRUGB, DRUGMONOG2, DRUGU, EMBAL, EMBASE, ...' ENTERED AT 15:16:16 ON 14 SEP 2006
SEA CAAX?(S)(PROTEAS? OR PROTEINAS? OR AFC? OR RCE?)

12 FILE AGRICOLA
1 FILE AQUASCI
1 FILE BIOENG
34 FILE BIOSIS
5 FILE BIOTECHABS
5 FILE BIOTECHDS
29 FILE BIOTECHNO
5 FILE CABA
49 FILE CAPLUS
1 FILE CEABA-VTB
416 FILE DGENE
9 FILE DISSABS
1 FILE DRUGU
29 FILE EMBASE
39 FILE ESBIODASE
0* FILE GENBANK
SEA CAAX?(S)(PROTEAS? OR PROTEINAS?)

10 FILE AGRICOLA
1 FILE BIOENG
20 FILE BIOSIS
5 FILE BIOTECHABS
5 FILE BIOTECHDS
21 FILE BIOTECHNO
5 FILE CABA
36 FILE CAPLUS
1 FILE CEABA-VTB
371 FILE DGENE
6 FILE DISSABS
1 FILE DRUGU
16 FILE EMBASE
24 FILE ESBIODASE
361 FILE GENBANK
6 FILE IFIPAT
2 FILE JICST-EPLUS
17 FILE LIFESCI
17 FILE MEDLINE
4 FILE PASCAL
19 FILE SCISEARCH
7 FILE TOXCENTER
97 FILE USPATFULL
4 FILE USPAT2
7 FILE WPIDS
7 FILE WPINDEX

L1 QUE CAAX?(S)(PROTEAS? OR PROTEINAS?)

D RANK

FILE 'GENBANK, USPATFULL, CAPLUS, ESBIODASE, BIOTECHNO, BIOSIS, SCISEARCH, LIFESCI, MEDLINE, EMBASE' ENTERED AT 15:20:10 ON 14 SEP 2006

L2 628 SEA CAAX?(S)(PROTEAS? OR PROTEINAS?)
L3 129 SEA L2 AND (AFC? OR RCE1?)
L4 65 DUP REM L3 (64 DUPLICATES REMOVED)
D TI L4 1-65
D IBIB ABS 43 14 21 25 36 38 40

Connecting via Winsock to STN

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LOGINID:ssspta1652dmr

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TERMINAL (ENTER 1, 2, 3, OR ?):2

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NEWS 4 MAY 10 CA/CAPLUS enhanced with 1900-1906 U.S. patent records
NEWS 5 MAY 11 KOREAPAT updates resume
NEWS 6 MAY 19 Derwent World Patents Index to be reloaded and enhanced
NEWS 7 MAY 30 IPC 8 Rolled-up Core codes added to CA/CAPLUS and
USPATFULL/USPAT2
NEWS 8 MAY 30 The F-Term thesaurus is now available in CA/CAPLUS
NEWS 9 JUN 02 The first reclassification of IPC codes now complete in
INPADOC
NEWS 10 JUN 26 TULSA/TULSA2 reloaded and enhanced with new search and
and display fields
NEWS 11 JUN 28 Price changes in full-text patent databases EPFULL and PCTFULL
NEWS 12 JUL 11 CHEMSAFE reloaded and enhanced
NEWS 13 JUL 14 FSTA enhanced with Japanese patents
NEWS 14 JUL 19 Coverage of Research Disclosure reinstated in DWPI
NEWS 15 AUG 09 INSPEC enhanced with 1898-1968 archive
NEWS 16 AUG 28 ADISCTI Reloaded and Enhanced
NEWS 17 AUG 30 CA(SM)/CAPLUS(SM) Austrian patent law changes
NEWS 18 SEP 11 CA/CAPLUS enhanced with more pre-1907 records

NEWS EXPRESS JUNE 30 CURRENT WINDOWS VERSION IS V8.01b, CURRENT
MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
AND CURRENT DISCOVER FILE IS DATED 26 JUNE 2006.

NEWS HOURS STN Operating Hours Plus Help Desk Availability
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Enter NEWS followed by the item number or name to see news on that
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* * * * * STN Columbus * * * * *

FILE 'HOME' ENTERED AT 15:15:59 ON 14 SEP 2006

=> index bioscience medicine

FILE 'DRUGMONOG' ACCESS NOT AUTHORIZED

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

0.21

0.21

INDEX 'ADISCTI, ADISINSIGHT, ADISNEWS, AGRICOLA, ANABSTR, ANTE, AQUALINE,
AQUASCI, BIOENG, BIOSIS, BIOTECHABS, BIOTECHDS, BIOTECHNO, CABA, CAPLUS,
CEABA-VTB, CIN, CONFSCI, CROPB, CROPU, DDFB, DDFU, DGENE, DISSABS, DRUGB,
DRUGMONOG2, DRUGU, EMBAL, EMBASE, ...' ENTERED AT 15:16:16 ON 14 SEP 2006

71 FILES IN THE FILE LIST IN STNINDEX

Enter SET DETAIL ON to see search term postings or to view
search error messages that display as 0* with SET DETAIL OFF.

=> s caax?(s) (proteas? or proteinas? or afc? or rce?)

12 FILE AGRICOLA
1 FILE AQUASCI
1 FILE BIOENG
34 FILE BIOSIS
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1 FILE CEABA-VTB
416 FILE DGENE
9 FILE DISSABS
1 FILE DRUGU

27 FILES SEARCHED...

29 FILE EMBASE
39 FILE ESBIODBASE
0* FILE GENBANK

=> d rank

NO F-NUMBERS CURRENTLY EXIST

=> d rank

NO F-NUMBERS CURRENTLY EXIST

=> s caax?(s) (proteas? or proteinas?)

10 FILE AGRICOLA
1 FILE BIOENG
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33 FILES SEARCHED...

361 FILE GENBANK
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17 FILE LIFESCI
17 FILE MEDLINE
4 FILE PASCAL
19 FILE SCISEARCH
7 FILE TOXCENTER
97 FILE USPATFULL
4 FILE USPAT2
7 FILE WPIDS

66 FILES SEARCHED...

7 FILE WPINDEX

26 FILES HAVE ONE OR MORE ANSWERS, 71 FILES SEARCHED IN STNINDEX

L1 QUE CAAX?(S) (PROTEAS? OR PROTEINAS?)

=> d rank

F1	371	DGENE
F2	361	GENBANK
F3	97	USPATFULL
F4	36	CAPLUS
F5	24	ESBIOBASE
F6	21	BIOTECHNO
F7	20	BIOSIS
F8	19	SCISEARCH
F9	17	LIFESCI
F10	17	MEDLINE
F11	16	EMBASE
F12	10	AGRICOLA
F13	7	TOXCENTER
F14	7	WPIDS
F15	7	WPINDEX
F16	6	DISSABS
F17	6	IFIPAT
F18	5	BIOTECHABS
F19	5	BIOTECHDS
F20	5	CABA
F21	4	PASCAL
F22	4	USPAT2
F23	2	JICST-EPLUS
F24	1	BIOENG
F25	1	CEABA-VTB
F26	1	DRUGU

=> file f2-f11

COST IN U.S. DOLLARS

SINCE FILE

ENTRY

TOTAL

SESSION

FULL ESTIMATED COST

4.27

4.48

FILE 'GENBANK' ENTERED AT 15:20:10 ON 14 SEP 2006

FILE 'USPATFULL' ENTERED AT 15:20:10 ON 14 SEP 2006

CA INDEXING COPYRIGHT (C) 2006 AMERICAN CHEMICAL SOCIETY (ACS)

FILE 'CAPLUS' ENTERED AT 15:20:10 ON 14 SEP 2006

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FILE 'BIOTECHNO' ENTERED AT 15:20:10 ON 14 SEP 2006

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FILE 'EMBASE' ENTERED AT 15:20:10 ON 14 SEP 2006

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=> s caax?(s)(proteas? or proteinas?)

L2 628 CAAX?(S) (PROTEAS? OR PROTEINAS?)

=> s l2 and (afc? or rce?)

TERM 'RCE?' EXCEEDED TRUNCATION LIMITS - SEARCH ENDED

You have entered a truncated stem which occurs in too many terms. Make the stem longer and try again. For example, if your original term was 'degr?' to search for variations and the abbreviation for 'degradation', you could replace it with the expression '(degrdn OR degrad?)'. If your search term was numeric, e.g., 'C>5', reduce the size of the range.

=> s l2 (s)(afc? or rce?)

TERM 'RCE?' EXCEEDED TRUNCATION LIMITS - SEARCH ENDED

You have entered a truncated stem which occurs in too many terms. Make the stem longer and try again. For example, if your original term was 'degr?' to search for variations and the abbreviation for 'degradation', you could replace it with the expression '(degrdn OR degrad?)'. If your search term was numeric, e.g., 'C>5', reduce the size of the range.

=> s l2 and (afc? or rce1?)

L3 129 L2 AND (AFC? OR RCE1?)

=> dup rem l3

DUPLICATE IS NOT AVAILABLE IN 'GENBANK'.

ANSWERS FROM THESE FILES WILL BE CONSIDERED UNIQUE
PROCESSING COMPLETED FOR L3

L4 65 DUP REM L3 (64 DUPLICATES REMOVED)

=> d ti l4 1-65

L4 ANSWER 1 OF 65 USPATFULL on STN

TI Process for improved protein expression by strain engineering

L4 ANSWER 2 OF 65 USPATFULL on STN

TI Stress tolerance and delayed senescence in plants

L4 ANSWER 3 OF 65 USPATFULL on STN

TI Stress tolerance and delayed senescence in plants

L4 ANSWER 4 OF 65 USPATFULL on STN

TI Stress tolerance and delayed senescence in plants

L4 ANSWER 5 OF 65 USPATFULL on STN

TI AFC1 and RCE1: isoprenylated CAAX processing enzymes

L4 ANSWER 6 OF 65 Elsevier BIOBASE COPYRIGHT 2006 Elsevier Science B.V. on
STN DUPLICATE

TI Mutational analysis of the Ras converting enzyme reveals a requirement
for glutamate and histidine residues

L4 ANSWER 7 OF 65 Elsevier BIOBASE COPYRIGHT 2006 Elsevier Science B.V. on
STN DUPLICATE

TI Endoproteolytic processing of RhoA by Rce1 is required for the
cleavage of RhoA by Yersinia enterocolitica outer protein T

L4 ANSWER 8 OF 65 USPATFULL on STN

TI Geranylgeranyl transferase type I (GGTase-I) structure and uses thereof

L4 ANSWER 9 OF 65 USPATFULL on STN
TI Methods for monitoring multiple gene expression

L4 ANSWER 10 OF 65 USPATFULL on STN
TI Methods for monitoring multiple gene expression

L4 ANSWER 11 OF 65 USPATFULL on STN
TI Isoprenoid analog compounds and methods of making and use thereof

L4 ANSWER 12 OF 65 USPATFULL on STN
TI Targets for therapeutic intervention identified in the mitochondrial proteome

L4 ANSWER 13 OF 65 USPATFULL on STN
TI Novel proteins and nucleic acids encoding same

L4 ANSWER 14 OF 65 USPATFULL on STN
TI AFC1 and RCE1: isoprenylated CAAX processing enzymes

L4 ANSWER 15 OF 65 USPATFULL on STN
TI System for identifying and analyzing expression of are-containing genes

L4 ANSWER 16 OF 65 USPATFULL on STN
TI Stress tolerance and delayed senescence in plants

L4 ANSWER 17 OF 65 USPATFULL on STN
TI DNA array sequence selection

L4 ANSWER 18 OF 65 CAPLUS COPYRIGHT 2006 ACS on STN
TI On the Physiological Importance of Endoproteolysis of CAAX Proteins: Heart-specific Rce1 knockout mice develop a lethal cardiomyopathy

L4 ANSWER 19 OF 65 CAPLUS COPYRIGHT 2006 ACS on STN
TI Mammalian farnesylated protein-converting enzyme 1

L4 ANSWER 20 OF 65 USPATFULL on STN
TI Antisense modulation of isoprenylcysteine carboxyl methyltransferase expression

L4 ANSWER 21 OF 65 USPATFULL on STN
TI CaaX prenyl protease nucleic acids and polypeptides and methods of use thereof

L4 ANSWER 22 OF 65 USPATFULL on STN
TI Identification of modulatory molecules using inducible promoters

L4 ANSWER 23 OF 65 USPATFULL on STN
TI Isoprenoid analog compounds and methods of making and use thereof

L4 ANSWER 24 OF 65 CAPLUS COPYRIGHT 2006 ACS on STN DUPLICATE 3
TI AtFACE-2, a functional Prenylated Protein Protease from Arabidopsis thaliana Related to Mammalian Ras-converting Enzymes

L4 ANSWER 25 OF 65 CAPLUS COPYRIGHT 2006 ACS on STN DUPLICATE 4
TI Identification, functional expression and enzymic analysis of two distinct CaaX proteases from Caenorhabditis elegans

L4 ANSWER 26 OF 65 USPATFULL on STN
TI Antibodies to polypeptides having prenylcysteine carboxyl methyltransferase activity or inhibiting activity

L4 ANSWER 27 OF 65 USPATFULL on STN
TI AFC1 and RCE1: isoprenylated CAAX processing enzymes

L4 ANSWER 28 OF 65 CAPLUS COPYRIGHT 2006 ACS on STN DUPLICATE 5
 TI The Arabidopsis AtSTE24 is a CAAX protease with broad substrate specificity

L4 ANSWER 29 OF 65 CAPLUS COPYRIGHT 2006 ACS on STN DUPLICATE 6
 TI Absence of the CAAX endoprotease Rce1: effects on cell growth and transformation

L4 ANSWER 30 OF 65 USPATFULL on STN
 TI Prenylcysteine carboxyl methyltransferase, DNA encoding same, and a method of screening for inhibitors thereof

L4 ANSWER 31 OF 65 USPATFULL on STN
 TI Polypeptides having prenylcysteine carboxyl methyltransferase activity or inhibiting activity

L4 ANSWER 32 OF 65 MEDLINE on STN
 TI The multispanning membrane protein Ste24p catalyzes CAAX proteolysis and NH2-terminal processing of the yeast a-factor precursor.

L4 ANSWER 33 OF 65 CAPLUS COPYRIGHT 2006 ACS on STN
 TI Biochemical studies of Zmpste24-deficient mice

L4 ANSWER 34 OF 65 USPATFULL on STN
 TI Compounds for inhibition of proteolysis

L4 ANSWER 35 OF 65 Elsevier BIOBASE COPYRIGHT 2006 Elsevier Science B.V. on STN DUPLICATE
 TI Reconstitution of the Ste24p-dependent N-terminal proteolytic step in yeast a-factor biogenesis

L4 ANSWER 36 OF 65 CAPLUS COPYRIGHT 2006 ACS on STN DUPLICATE 8
 TI The CaaX proteases, Afclp and Rcelp, have overlapping but distinct substrate specificities

L4 ANSWER 37 OF 65 CAPLUS COPYRIGHT 2006 ACS on STN DUPLICATE 9
 TI Studies with Recombinant Saccharomyces cerevisiae CaaX Prenyl Protease Rcelp

L4 ANSWER 38 OF 65 MEDLINE on STN
 TI Trypanosoma cruzi: a putative vacuolar ATP synthase subunit and a CAAX prenyl protease-encoding gene, as examples of gene identification in genome projects.

L4 ANSWER 39 OF 65 CAPLUS COPYRIGHT 2006 ACS on STN
 TI Expression and activity of human prenylcysteine-directed carboxyl methyltransferase

L4 ANSWER 40 OF 65 CAPLUS COPYRIGHT 2006 ACS on STN DUPLICATE 10
 TI Cloning and characterization of a mammalian prenyl protein-specific protease

L4 ANSWER 41 OF 65 USPATFULL on STN
 TI Compounds for inhibition of proteolysis

L4 ANSWER 42 OF 65 USPATFULL on STN
 TI Farnesyl derivatives and pharmaceutical compositions containing them

L4 ANSWER 43 OF 65 CAPLUS COPYRIGHT 2006 ACS on STN
 TI Mammalian CAAX processing enzyme homologs of Saccharomyces cerevisiae RCE1 and AFC1

L4 ANSWER 44 OF 65 CAPLUS COPYRIGHT 2006 ACS on STN
 TI Yeast AFC1 and RCE1 genes and encoded proteases and methods for inhibiting proteolytic processing of

CAAX proteins and treatment of cancer

- L4 ANSWER 45 OF 65 CAPLUS COPYRIGHT 2006 ACS on STN DUPLICATE 11
TI Endoplasmic reticulum membrane localization of Rcelp and Ste24p,
yeast proteases involved in carboxyl-terminal CAAX
protein processing and amino-terminal a-factor cleavage
- L4 ANSWER 46 OF 65 CAPLUS COPYRIGHT 2006 ACS on STN DUPLICATE 12
TI Dual roles for Ste24p in yeast a-factor maturation: NH2-terminal
proteolysis and COOH-terminal CAAX processing
- L4 ANSWER 47 OF 65 CAPLUS COPYRIGHT 2006 ACS on STN
TI Endoproteolysis of non-CAAX-containing isoprenylated peptides
- L4 ANSWER 48 OF 65 GENBANK® COPYRIGHT 2006 on STN
TITLE (TI): Cloning and characterization of trypanosomatid
prenyl-CAAX protein endoproteases
TITLE (TI): Direct Submission
- L4 ANSWER 49 OF 65 GENBANK® COPYRIGHT 2006 on STN
TITLE (TI): Cloning and characterization of trypanosomatid
prenyl-CAAX protein endoproteases
TITLE (TI): Direct Submission
- L4 ANSWER 50 OF 65 GENBANK® COPYRIGHT 2006 on STN
TITLE (TI): Cloning and characterization of trypanosomatid
prenyl-CAAX protein endoproteases
TITLE (TI): Direct Submission
- L4 ANSWER 51 OF 65 GENBANK® COPYRIGHT 2006 on STN
TITLE (TI): Cloning and characterization of trypanosomatid
prenyl-CAAX protein endoproteases
TITLE (TI): Direct Submission
- L4 ANSWER 52 OF 65 GENBANK® COPYRIGHT 2006 on STN
TITLE (TI): The Genome Sequence of Aedes aegypti (strain Liverpool)
TITLE (TI): Direct Submission
TITLE (TI): Direct Submission
- L4 ANSWER 53 OF 65 GENBANK® COPYRIGHT 2006 on STN
TITLE (TI): The genome of the kinetoplastid parasite, Leishmania
major
TITLE (TI): Direct Submission
- L4 ANSWER 54 OF 65 GENBANK® COPYRIGHT 2006 on STN
TITLE (TI): Genomic plasticity of the causative agent of
melioidosis, Burkholderia pseudomallei
TITLE (TI): Direct Submission
- L4 ANSWER 55 OF 65 GENBANK® COPYRIGHT 2006 on STN
TITLE (TI): Genome evolution in yeasts
TITLE (TI): Direct Submission
- L4 ANSWER 56 OF 65 GENBANK® COPYRIGHT 2006 on STN
TITLE (TI): Integrated mapping, chromosomal sequencing and sequence
analysis of Cryptosporidium parvum

TITLE (TI): Direct Submission

L4 ANSWER 57 OF 65 GENBANK® COPYRIGHT 2006 on STN

TITLE (TI): Chicken genomics resource: sequencing and annotation of 35,407 ESTs from single and multiple tissue cDNA libraries and CAP3 assembly of a chicken gene index

L4 ANSWER 58 OF 65 GENBANK® COPYRIGHT 2006 on STN

TITLE (TI): Chicken genomics resource: sequencing and annotation of 35,407 ESTs from single and multiple tissue cDNA libraries and CAP3 assembly of a chicken gene index

L4 ANSWER 59 OF 65 GENBANK® COPYRIGHT 2006 on STN

TITLE (TI): National Cancer Institute, Cancer Genome Anatomy Project (CGAP), Tumor Gene Index

L4 ANSWER 60 OF 65 GENBANK® COPYRIGHT 2006 on STN

TITLE (TI): National Cancer Institute, Cancer Genome Anatomy Project (CGAP), Tumor Gene Index

L4 ANSWER 61 OF 65 GENBANK® COPYRIGHT 2006 on STN

TITLE (TI): Cloning and characterization of a mammalian prenyl protein-specific protease

TITLE (TI): Direct Submission

L4 ANSWER 62 OF 65 GENBANK® COPYRIGHT 2006 on STN

TITLE (TI): The WashU-NCI Mouse EST Project 1999

L4 ANSWER 63 OF 65 GENBANK® COPYRIGHT 2006 on STN

TITLE (TI): The WashU-NCI Mouse EST Project 1999

L4 ANSWER 64 OF 65 GENBANK® COPYRIGHT 2006 on STN

TITLE (TI): The WashU-NCI Mouse EST Project 1999

L4 ANSWER 65 OF 65 GENBANK® COPYRIGHT 2006 on STN

TITLE (TI): The genome sequence of Schizosaccharomyces pombe

TITLE (TI): Direct Submission

=> d ibib abs 43 14 21 25 36 38 40

L4 ANSWER 43 OF 65 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1998:795141 CAPLUS

DOCUMENT NUMBER: 130:49180

TITLE: Mammalian CAAX processing enzyme homologs of Saccharomyces cerevisiae RCE1 and AFC1

INVENTOR(S): Ashby, Matthew N.; Dimster-Denk, Dago G.; Philips, John W.

PATENT ASSIGNEE(S): Acacia Biosciences Inc., USA

SOURCE: PCT Int. Appl., 98 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 3

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9854333	A2	19981203	WO 1998-US11415	19980602
WO 9854333	A3	19990408		
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, GW, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
AU 9877216	A1	19981230	AU 1998-77216	19980602
US 6518035	B1	20030211	US 1999-454889	19991203
PRIORITY APPLN. INFO.:			US 1997-47369P	P 19970602
			US 1997-52389P	P 19970714
			WO 1998-US11415	W 19980602
			US 1998-213120	B2 19981215

AB The present invention provides mammalian DNA sequences that display a high degree of sequence identity to their *Saccharomyces cerevisiae* counterparts, RCE1 and AFC1, coding for prenylation-dependent CAAX endoproteases. Specifically, cDNA sequences of the human and mouse RCE functional homologs are provided. Human cDNA sequences encoding proteins having a high degree of amino acid sequence identity to the yeast Afc1p protein are also provided. Northern blots revealed the presence of a single abundant hRCE mRNA species in all tissues examined; the highest expression was found in placenta and pancreas and the lowest expression was found in the brain. This invention is also directed to recombinant DNA mols. comprising the mammalian DNA sequences, DNA mols. and antisense RNA mols. which hybridize under stringent hybridization conditions to those DNA sequences, hosts transformed with their recombinant DNA mols. and protein expression products produced by culturing the transformed hosts. Antibodies directed against the protein expression products are also provided. Also provided are assays to identify inhibitors of one or more mammalian CAAX processing enzymes and kits for making the above products and performing the above assays. Finally, this invention provides pharmaceutical compns. comprising an inhibitor of a mammalian CAAX processing enzyme, and methods for treating a CAAX-protein mediated disease or disorder in a patient by administering such a pharmaceutical composition.

L4 ANSWER 14 OF 65 USPTAFULL on STN

ACCESSION NUMBER: 2004:94843 USPTAFULL

TITLE: AFC1 and RCE1: isoprenylated CAAX processing enzymes

INVENTOR(S): Rine, Jasper D., Moraga, CA, UNITED STATES
 Boyartchuk, Victor L., Berkeley, CA, UNITED STATES
 Ashby, Matthew N., Mill Valley, CA, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2004072296	A1	20040415
APPLICATION INFO.:	US 2003-646950	A1	20030821 (10)
RELATED APPLN. INFO.:	Continuation of Ser. No. US 1998-165460, filed on 2 Oct 1998, PENDING Division of Ser. No. US 1997-902774, filed on 30 Jul 1997, ABANDONED		

	NUMBER	DATE
PRIORITY INFORMATION:	US 1996-23491P	19960807 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	RICHARD ARON OSMAN, SCIENCE AND TECHNOLOGY LAW GROUP, 242 AVE VISTA DEL OCEANO, SAN CLEMENTE, CA, 92672	

NUMBER OF CLAIMS: 20
EXEMPLARY CLAIM: 1
LINE COUNT: 2227

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Two genes which encode polypeptides that mediate post-prenylation processing steps in CAAAX polypeptides such as Ras are provided. The two genes (AFC1 and RCE1) encode polypeptides that mediate the removal of the AAX tripeptide from the CAAAX polypeptide following prenylation. The genes and encoded polypeptides provide assays for testing compounds for an effect on post-prenylation processing steps. A heat shock assay for assessing Ras activity is also provided.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 21 OF 65 USPATFULL on STN

ACCESSION NUMBER: 2003:290102 USPATFULL
TITLE: CaaX prenyl protease nucleic acids
and polypeptides and methods of use thereof

INVENTOR(S): Wan, Jiangxin, Kingston, CANADA
Huang, Yafan, Kingston, CANADA
Melo, Delina Mary-Jane, Inverary, CANADA
Kuzma, Monika Maria, Glenburnie, CANADA
Gilley Sample, Angela Patricia, Inverary, CANADA

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2003204865	A1	20031030
APPLICATION INFO.:	US 2002-210760	A1	20020801 (10)

	NUMBER	DATE
PRIORITY INFORMATION:	US 2001-309396P	20010801 (60)
	US 2001-337084P	20011204 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	Ivor R. Elrifi, Ph.D., Mintz, Levin, Cohn, Ferris,, Glovsky and Popeo, P.C., One Financial Center, Boston, MA, 02111	
NUMBER OF CLAIMS:	45	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	14 Drawing Page(s)	
LINE COUNT:	6397	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention provides novel isolated prenyl protease polynucleotides and polypeptides encoded by the prenyl protease polynucleotides. Also provided are the antibodies that immunospecifically bind to a prenyl protease polypeptide or any derivative, variant, mutant or fragment of the prenyl protease polypeptide, polynucleotide or antibody. The invention additionally provides methods of constructing transgenic plants that have altered levels of prenyl protease polynucleotides and polypeptides. Methods for identifying prenyl protease enzymes substrates and inhibitors are also provided.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 25 OF 65 CAPLUS COPYRIGHT 2006 ACS on STN DUPLICATE 4

ACCESSION NUMBER: 2003:196228 CAPLUS
DOCUMENT NUMBER: 139:113466
TITLE: Identification, functional expression and enzymic
analysis of two distinct CaaX
proteases from Caenorhabditis elegans
AUTHOR(S): Cadinanos, Juan; Schmidt, Walter K.; Fueyo, Antonio;
Varela, Ignacio; Lopez-Otin, Carlos; Freije, Jose M.
P.

CORPORATE SOURCE: Instituto Universitario de Oncologia, Departamento de Bioquimica y Biologia Molecular, Universidad de Oviedo, Oviedo, 33006, Spain
SOURCE: Biochemical Journal (2003), 370(3), 1047-1054
CODEN: BIJOAK; ISSN: 0264-6021
PUBLISHER: Portland Press Ltd.
DOCUMENT TYPE: Journal
LANGUAGE: English

AB Post-translational processing of proteins such as the Ras GTPases, which contain a C-terminal CaaX motif (where C stands for cysteine, a for aliphatic and X is one of several amino acids), includes prenylation, proteolytic removal of the C-terminal tripeptide and carboxy-methylation of the isoprenyl-cysteine residue. In the present study, we report the presence of two distinct CaaX-proteolytic activities in membrane exts. from *Caenorhabditis elegans*, which are sensitive to EDTA and Tos-Phe-CH₂Cl (tosylphenylalanylchloromethane; TPCK') resp. A protein similar to the mammalian and yeast farnesylated-proteins converting enzyme-1 (FACE-1)/Ste24p CaaX metalloprotease, encoded by a hypothetical gene (CeFACE-1/C04F12.10) found in *C. elegans* chromosome I, probably accounts for the EDTA-sensitive activity. An orthologue of FACE-2/Rcelp, the enzyme responsible for the proteolytic maturation of Ras oncoproteins and other prenylated substrates, probably accounts for the Tos-Phe-CH₂Cl-sensitive activity, even though the gene for FACE-2/Rcel has not been previously identified in this model organism. We have identified a previously overlooked gene in *C. elegans* chromosome V, which codes for a 266-amino-acid protein (CeFACE-2) with 30% sequence identity to human FACE-2/Rcel. We show that both CeFACE-1 and CeFACE-2 have the ability to promote production of the farnesylated yeast pheromone a-factor in vivo and to cleave a farnesylated peptide in vitro. These results indicate that CeFACE-1 and CeFACE-2 are bona fide CaaX proteases and support the evolutionary conservation of this proteolytic system in eukaryotes.

REFERENCE COUNT: 29 THERE ARE 29 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 36 OF 65 CAPLUS COPYRIGHT 2006 ACS on STN DUPLICATE 8

ACCESSION NUMBER: 2000:391826 CAPLUS

DOCUMENT NUMBER: 133:204629

TITLE: The CaaX proteases, Afc1p and Rcelp, have overlapping but distinct substrate specificities

AUTHOR(S): Trueblood, Cynthia Evans; Boyartchuk, Victor L.; Picologlou, Elizabeth A.; Rozema, David; Poulter, C. Dale; Rine, Jasper

CORPORATE SOURCE: Molecular and Cell Biology Department, University of California, Berkeley, CA, 94720, USA

SOURCE: Molecular and Cellular Biology (2000), 20(12), 4381-4392

CODEN: MCEBD4; ISSN: 0270-7306

PUBLISHER: American Society for Microbiology

DOCUMENT TYPE: Journal

LANGUAGE: English

AB Many proteins that contain a carboxyl-terminal CaaX sequence motif, including Ras and yeast a-factor, undergo a series of sequential posttranslational processing steps. Following the initial prenylation of the cysteine, the three C-terminal amino acids are proteolytically removed, and the newly formed prenylcysteine is carboxymethylated. The specific amino acids that comprise the CaaX sequence influence whether the protein can be prenylated and proteolyzed. In this study, we evaluated processing of a-factor variants with all possible single amino acid substitutions at either the a1, the a2, or the X position of the a-factor Cala2X sequence, CVIA. The substrate specificity of the two known yeast CaaX proteases, Afc1p and Rcelp, was investigated in vivo. Both Afc1p and Rcelp were able to proteolyze a-factor with A, V, L, I, C, or M at the a1 position, V, L,

I, C, or M at the a2 position, or any amino acid at the X position that was acceptable for prenylation of the cysteine. Eight addnl. a-factor variants with a1 substitutions were proteolyzed by Rcelp but not by Afc1p. In contrast, Afc1p was able to proteolyze addnl. a-factor variants that Rcelp may not be able to proteolyze. In vitro assays indicated that farnesylation was compromised or undetectable for 11 a-factor variants that produced no detectable halo in the wild-type AFC1 RCE1 strain. The isolation of mutations in RCE1 that improved proteolysis of a-factor-CAMQ, indicated that amino acid substitutions E139K, F189L, and Q201R in Rcelp affected its substrate specificity.

REFERENCE COUNT: 50 THERE ARE 50 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 38 OF 65 MEDLINE on STN
ACCESSION NUMBER: 2000457705 MEDLINE
DOCUMENT NUMBER: PubMed ID: 10964645
TITLE: Trypanosoma cruzi: a putative vacuolar ATP synthase subunit and a CAAX prenyl protease-encoding gene, as examples of gene identification in genome projects.
AUTHOR: Porcel B M; Aslund L; Pettersson U; Andersson B
CORPORATE SOURCE: Department of Genetics and Pathology, Section of Medical Genetics, Rudbeck Laboratory, Uppsala, SE-751 85, Sweden.
SOURCE: Experimental parasitology, (2000 Jul) Vol. 95, No. 3, pp. 176-86.
Journal code: 0370713. ISSN: 0014-4894.
PUB. COUNTRY: United States
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)
LANGUAGE: English
FILE SEGMENT: Priority Journals
OTHER SOURCE: GENBANK-AF052833; GENBANK-AF251807; GENBANK-AF251808; GENBANK-AF251809; GENBANK-AF252542; GENBANK-AF252543; GENBANK-AF252544
ENTRY MONTH: 200009
ENTRY DATE: Entered STN: 5 Oct 2000
Last Updated on STN: 5 Oct 2000
Entered Medline: 28 Sep 2000

AB An international genome program has been initiated to increase the knowledge about the Trypanosoma cruzi genome and thereby find effective tools to treat Chagas' disease. We here report the molecular characterization of two novel genes found in the course of this project. Two of the open reading frames (ORF) identified in the sequencing of the third smallest chromosome of the CL Brener strain of T. cruzi were selected for further molecular characterization due to their similarity to genes with interesting functions in other organisms and their potential as targets to combat the parasite. The first ORF (402 bp) showed homology to a 14-kDa vacuolar ATP synthase subunit F from a variety of organisms, such as yeast, rat, bovine, human, and a number of prokaryotes. The second ORF (1188 bp) resembled a CAAX prenyl protease-encoding gene, identified in different organisms, including Homo sapiens, Saccharomyces cerevisiae, and Arabidopsis thaliana, as well as several prokaryotes. RT-PCR from T. cruzi total epimastigote RNA allowed us to isolate the complete transcripts of these genes. Furthermore, screening of an available normalized cDNA library derived from the same stage of the parasite confirmed that both genes are expressed at least in the epimastigote stage of T. cruzi. Comparison of the putative T. cruzi proteins to their counterparts in other organisms revealed significant protein sequence conservation over large evolutionary distances. Computer analysis revealed the presence of several motifs in both proteins, possibly related to the regulation and localization of these proteins in the parasite.
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L4 ANSWER 40 OF 65 CAPLUS COPYRIGHT 2006 ACS on STN DUPLICATE 10

ACCESSION NUMBER: 1999:218805 CAPLUS
 DOCUMENT NUMBER: 131:41335
 TITLE: Cloning and characterization of a mammalian prenyl
 protein-specific protease
 AUTHOR(S): Otto, James C.; Kim, Edward; Young, Stephen G.; Casey,
 Patrick J.
 CORPORATE SOURCE: Departments of Pharmacology and Cancer Biology and of
 Biochemistry, Duke University Medical Center, Durham,
 NC, 27710-3686, USA
 SOURCE: Journal of Biological Chemistry (1999), 274(13),
 8379-8382
 CODEN: JBCHA3; ISSN: 0021-9258
 PUBLISHER: American Society for Biochemistry and Molecular
 Biology
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 AB Proteins containing C-terminal "CAAX" sequence motifs undergo three sequential
 post-translational processing steps: modification of the cysteine with
 either a 15-carbon farnesyl or 20-carbon geranylgeranyl isoprenyl lipid,
 proteolysis of the C-terminal -AAX tripeptide, and methylation of the
 carboxyl group of the now C-terminal prenylcysteine. A putative prenyl
 protein protease in yeast, designated Rcelp, was recently
 identified. In this study, a portion of a putative human homolog of
 RCE1 (hRCE1) was identified in a human expressed sequence tag data
 base, and the corresponding cDNA was cloned. Expression of hRCE1 was
 detected in all tissues examined Both yeast and human RCE1
 proteins were produced in Sf9 insect cells by infection with a recombinant
 baculovirus; membrane preps. derived from the infected Sf9 cells
 exhibited a high level of prenyl protease activity. Recombinant hRCE1 so
 produced recognized both farnesylated and geranylgeranylated proteins as
 substrates, including farnesyl-Ki-Ras, farnesyl-N-Ras, farnesyl-Ha-Ras,
 and the farnesylated heterotrimeric G protein Gyl subunit, as well
 as geranylgeranyl-Ki-Ras and geranylgeranyl-Rap1b. The protease activity
 of hRCE1 activity was specific for prenylated proteins, because
 unprenylated peptides did not compete for enzyme activity. HRCE1 activity
 was also exquisitely sensitive to a prenyl peptide analog that had been
 previously described as a potent inhibitor of the prenyl protease activity
 in mammalian tissues. These data indicate that both the yeast and the
 human RCE1 gene products are bona fide prenyl protein
 proteases and suggest that they play a major role in the
 processing of CAAX-type prenylated proteins.
 REFERENCE COUNT: 36 THERE ARE 36 CITED REFERENCES AVAILABLE FOR THIS
 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

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 AQUASCI, BIOENG, BIOSIS, BIOTECHABS, BIOTECHDS, BIOTECHNO, CABA, CAPLUS,
 CEABA-VTB, CIN, CONFSCI, CROPB, CROPU, DDFB, DDFU, DGENE, DISSABS, DRUGB,
 DRUGMONOG2, DRUGU, EMBAL, EMBASE, ...' ENTERED AT 15:16:16 ON 14 SEP 2006
 SEA CAAX?(S) (PROTEAS? OR PROTEINAS? OR AFC? OR RCE?)

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 1 FILE CEABA-VTB

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9 FILE DISSABS
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39 FILE ESBIODASE
0* FILE GENBANK
SEA CAAX? (S) (PROTEAS? OR PROTEINAS?)

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97 FILE USPATFULL
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7 FILE WPIDS
7 FILE WPINDEX

L1 QUE CAAX? (S) (PROTEAS? OR PROTEINAS?)

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FILE 'GENBANK, USPATFULL, CAPLUS, ESBIODASE, BIOTECHNO, BIOSIS,
SCISEARCH, LIFESCI, MEDLINE, EMBASE' ENTERED AT 15:20:10 ON 14 SEP 2006

L2 628 SEA CAAX? (S) (PROTEAS? OR PROTEINAS?)

L3 129 SEA L2 AND (AFC? OR RCE1?)

L4 65 DUP REM L3 (64 DUPLICATES REMOVED)

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FILE LAST UPDATED: 14 Sep 2006 (20060914/ED)

HIGHEST GRANTED PATENT NUMBER: US7107620

HIGHEST APPLICATION PUBLICATION NUMBER: US2006206975

CA INDEXING IS CURRENT THROUGH 12 Sep 2006 (20060912/UPCA)

ISSUE CLASS FIELDS (/INCL) CURRENT THROUGH: 14 Sep 2006 (20060914/PD)
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